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## (54) INTAKE DEVICE FOR FOUR-CYCLE V-TYPE OUTBOARD ENGINE

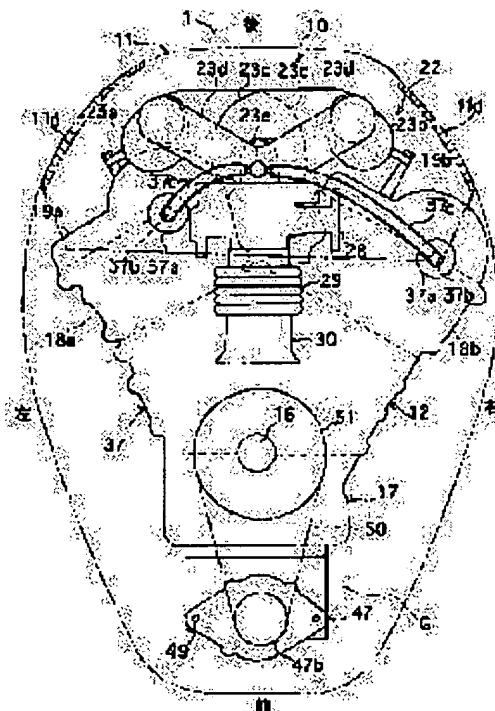
(57)Abstract:

PROBLEM TO BE SOLVED: To equally form an intake pipe length to each cylinder, so that the increase in an intake air temperature can be suppressed, in the case of applying a four-cycle engine to an outboard motor.

SOLUTION: A 4-cycle V-engine, formed by arranging right/left cylinder part heads 18a, 18b so as to form a V bank, is arranged vertically so as to almost

perpendicularly place a crankshaft 16 at sailing time, also to be formed by surrounding the periphery of the engine with a cowling 11, to arrange surge tanks 23a, 23b extended almost parallelly to the crankshaft 16 in a V bank side, to connect the surge tanks 23a, 23b to an intake port to each cylinder by an intake pipe line 23c of equal length, also to connect an air introducing passage 30

to an upper end part of the surge tanks 23a, 23b, and a throttle valve 28 is interposed in the air introducing passage 30, also to position an opening of the passage 30 in the vicinity of an outside air introducing port 11d formed in an upper part of the cowling.



## LEGAL STATUS

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